

Course progression maps for 2025 commencing students

This progression map provides advice on the optimal sequencing of units and guidance on planning unit enrolment for each semester of study in conjunction with the required units outlined in the course 'Requirements' section of the [Handbook](#). Please note that the map may be updated to reflect changes to course requirements. Be sure to review it for the latest information before re-enrolling. Last updated: 30 September 2026

E3011 Bachelor of Engineering (Honours) and Bachelor of Information Technology Common First Year

You do not have VCE Units 3 & 4 Specialist Maths >30 study score <u>and</u> VCE Units 3 & 4 Physics >25 study score: You must enrol in Foundation mathematics (ENG1090) <u>and</u> Foundation physics (PHS1001)					
Year	Sem	Units			
1	Sem 1 Feb	ENG1013 Engineering smart systems	PHS1001 Foundation physics * <i>Corequisite: ENG1090 *</i>	ENG1090 Foundation mathematics *	FIT1047 Introduction to computer systems networks and security
	Sem 2 July	ENG1011 Engineering methods	ENG1005 Engineering mathematics <i>Required: ENG1090 *</i>	ENG1014 Engineering numerical analysis <i>Corequisite: ENG1005</i>	FIT1045 Introduction to programming
If you require two foundation units, you will need to take the remaining core unit ENG1012 Engineering design in Year 2 (Semester 1) as an overload. This increases the total credit points needed for the double degree by 6 points. You cannot swap the semesters of any of the units.					

You do not have VCE Units 3 & 4 Specialist Maths >30 study score: You must enrol in Foundation mathematics (ENG1090)					
1	Sem 1 Feb	ENG1012 Engineering design	ENG1011 Engineering methods	ENG1090 Foundation mathematics *	FIT1047 Introduction to computer systems networks and security
	Sem 2 July	ENG1013 Engineering smart systems	ENG1005 Engineering mathematics <i>Required: ENG1090 *</i>	ENG1014 Engineering numerical analysis <i>Corequisite: ENG1005</i>	FIT1045 Introduction to programming

You do not have VCE Units 3 & 4 Physics 25 study score: You must enrol in Foundation physics (PHS1001)					
1	Sem 1 Feb	ENG1005 Engineering mathematics <i>Required: ENG1090 *</i>	ENG1013 Engineering smart systems	PHS1001 Foundation physics *	FIT1047 Introduction to computer systems networks and security
	Sem 2 July	ENG1011 Engineering methods	ENG1012 Engineering design	ENG1014 Engineering numerical analysis <i>Corequisite: ENG1005</i>	FIT1045 Introduction to programming

You have completed VCE Units 3 & 4 Physics >25 study score <u>and</u> VCE Units 3 and 4 Specialist Maths >30 study score: No foundation units are required					
1	Sem 1 Feb	ENG1011 Engineering methods	ENG1005 Engineering mathematics <i>Required: ENG1090 *</i>	ENG1014 Engineering numerical analysis <i>Corequisite: ENG1005</i>	FIT1047 Introduction to computer systems networks and security
	Sem 2 July	ENG1012 Engineering design	ENG1013 Engineering smart systems	First Year engineering breadth study	FIT1045 Introduction to programming

NOTE:

- * Foundation units: You enrol in the foundation units ENG1090 and/or PHS1001 if you have not completed the Australian VCE (Units 3 & 4) or equivalent Specialist mathematics and/or Physics with [the required study score](#).
- It is important that you follow the course map unit sequence, as units are designed to build on prior knowledge. Taking units out of sequence can disrupt your progression and cause delays due to semester offerings and enrolment rules.
- Each unit requires 12 hours of work per week. A full-time study week totals 48 hours. If you are unable to commit 48 hours of study due to external commitments, please speak with a course advisor about options to study less units per semester or take some units in the summer semester.
- For enrolment advice, please refer to the [Course advisers webpage](#).

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E3011 Bachelor of Engineering (Honours) and Bachelor of Information Technology

Engineering specialisation - Electrical and computer systems engineering

IT major – Applied cybersecurity

	Bachelor of Electrical and Computer Systems Engineering (Honours)		Bachelor of Information Technology		
Year 1 Semester 1 February	Common First Year			FIT1047 Introduction to computer systems networks and security	
Year 1 Semester 2 July				FIT1045 Introduction to programming	
Year 2 Semester 1 February	ECE2071 Systems programming	ECE2131 Electrical circuits	FIT1049 IT professional practice	FIT1057 Introduction to cybersecurity	If two foundation units are required then overload is required for ENG1012 Engineering design
Year 2 Semester 2 July	ECE2072 Digital systems	ENG2005 Advanced engineering mathematics	FIT2094 Databases	FIT1093 Cybersecurity tools and techniques	
Year 3 Semester 1 February	ECE3051 Electrical energy systems	ECE3073 Computer systems	FIT2001 Systems development	FIT2165 Computer networks	
Year 3 Semester 2 July	ECE2111 Signals and systems	ECE2191 Probability and AI for engineers	FIT2002 IT project management	FIT2100 Operating systems	
Year 4 Semester 1 February	ECE3141 Information and networks	Core List A elective	FIT2173 Software security	FIT3031 Network security	
Year 4 Semester 2 July	ECE3121 Engineering electromagnetics	ECE3161 Analogue electronics	FIT3168 IT forensics	FIT3186 Vulnerability analysis, response and mitigation	
Year 5 Semester 1 February	ENG4701 Final year project A	Complete one Professional Practice domain unit	Core List A or B elective	FIT3047 IE Studio project 1	ENG0001 Continuous Professional Development (0 credit points)
Year 5 Semester 2 July	ENG4702 Final year project B	ECE4191 Engineering integrated design	ECE4132 Control system design From 2027: Replace with ECE3133	FIT3048 IE Studio project 2	

NOTE:

- It is important that you follow the course map unit sequence, as units are designed to build on prior knowledge. Taking units out of sequence can disrupt your progression and cause delays due to semester offerings and enrolment rules.
- ECE2072** - If you have completed ECE2072 as a First Year breadth study unit, it will count towards your ECSE engineering study. You must still fulfil the First Year engineering breadth study requirement by completing another breadth study unit.
- Engineering minors are not available in the Engineering double degree courses.
- You are required to complete at least 420 hours of Continuous Professional Development (CPD) in order to graduate. For further information refer to the [CPD webpage](#).
- Each unit requires 12 hours of work per week. A full-time study week totals 48 hours. If you are unable to commit 48 hours of study due to external commitments, please speak with a course advisor about options to study less units per semester or take some units in the summer semester.
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E3011 Bachelor of Engineering (Honours) and Bachelor of Information Technology

Engineering specialisation - Electrical and computer systems engineering

IT major – Business information systems

	Bachelor of Electrical and Computer Systems Engineering (Honours)		Bachelor of Information Technology		
Year 1 Semester 1 February	Common First Year			FIT1047 Introduction to computer systems networks and security	
Year 1 Semester 2 July				FIT1045 Introduction to programming	
Year 2 Semester 1 February	ECE2071 Systems programming	ECE2131 Electrical circuits	FIT1051 Programming fundamentals in Java	FIT1006 Business information analysis	If two foundation units are required then overload is required for ENG1012 Engineering design
Year 2 Semester 2 July	ECE2072 Digital systems	ENG2005 Advanced engineering mathematics	FIT1049 IT professional practice	FIT2090 Business information systems and processes	
Year 3 Semester 1 February	ECE3051 Electrical energy systems	ECE3073 Computer systems	FIT2001 Systems development	FIT2081 Mobile applications development	
Year 3 Semester 2 July	ECE2111 Signals and systems	ECE2191 Probability and AI for engineers	FIT2002 IT project management	FIT2095 Full stack development	
Year 4 Semester 1 February	ECE3141 Information and networks	Core List A elective	FIT3152 Data analytics	FIT2094 Databases	
Year 4 Semester 2 July	ECE3121 Engineering electromagnetics	ECE3161 Analogue electronics	FIT3158 Business decision modelling	FIT3138 Real time enterprise systems	
Year 5 Semester 1 February	ENG4701 Final year project A	Complete one Professional Practice domain unit	Core List A or B elective	FIT3047 IE Studio project 1	ENG0001 Continuous Professional Development (0 credit points)
Year 5 Semester 2 July	ENG4702 Final year project B	ECE4191 Engineering integrated design	ECE4132 Control system design From 2027: Replace with ECE3133	FIT3048 IE Studio project 2	

NOTE:

- It is important that you follow the course map unit sequence, as units are designed to build on prior knowledge. Taking units out of sequence can disrupt your progression and cause delays due to semester offerings and enrolment rules.
- [ECE2072](#) - If you have completed this unit as a First Year breadth study unit, it will count towards your ECSE engineering study. You must still fulfil the First Year engineering breadth study requirement by completing another breadth study unit.
- Engineering minors are not available in the Engineering double degree courses.
- You are required to complete at least 420 hours of Continuous Professional Development (CPD) in order to graduate. For further information refer to the [CPD webpage](#).
- Each unit requires 12 hours of work per week. A full-time study week totals 48 hours. If you are unable to commit 48 hours of study due to external commitments, please speak with a course advisor about options to study less units per semester or take some units in the summer semester.
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E3011 Bachelor of Engineering (Honours) and Bachelor of Information Technology

Engineering specialisation - Electrical and computer systems engineering

IT major – Games and immersive media

	Bachelor of Electrical and Computer Systems Engineering (Honours)		Bachelor of Information Technology		
Year 1 Semester 1 February	Common First Year			FIT1047 Introduction to computer systems networks and security	
Year 1 Semester 2 July				FIT1045 Introduction to programming	
Year 2 Semester 1 February	ECE2071 Systems programming	ECE2131 Electrical circuits	FIT1049 IT professional practice	FIT1073 Game design	If two foundation units are required then overload is required for ENG1012 Engineering design
Year 2 Semester 2 July	ECE2072 Digital systems	ENG2005 Advanced engineering mathematics	FIT2094 Databases	FIT1033 Foundations of 3D	
Year 3 Semester 1 February	ECE3051 Electrical energy systems	ECE3073 Computer systems	FIT2096 Games programming or FIT2169 Immersive environments	FIT2098 Virtual and augmented reality	
Year 3 Semester 2 July	ECE2111 Signals and systems	ECE2191 Probability and AI for engineers	FIT2001 Systems development	FIT2145 Game prototyping	
Year 4 Semester 1 February	ECE3141 Information and networks	Core List A elective	FIT3187 3D character animation	FIT3172 Sonics	
Year 4 Semester 2 July	ECE3121 Engineering electromagnetics	ECE3161 Analogue electronics	FIT2002 IT project management	FIT3097 Technical art	
Year 5 Semester 1 February	ENG4701 Final year project A	Complete one Professional Practice domain unit	Core List A or B elective	FIT3039 Studio project 1	ENG0001 Continuous Professional Development (0 credit points)
Year 5 Semester 2 July	ENG4702 Final year project B	ECE4191 Engineering integrated design	ECE4132 Control system design From 2027: Replace with ECE3133	FIT3040 Studio project 2	

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- ECE2072** - If you have completed ECE2072 as a First Year breadth study unit, it will count towards your ECSE engineering study. You must still fulfil the First Year engineering breadth study requirement by completing another breadth study unit. Engineering minors are not available in the Engineering double degree courses.
- You are required to complete at least 420 hours of Continuous Professional Development (CPD) in order to graduate. For further information refer to the [CPD webpage](#).
- Each unit requires 12 hours of work per week. A full-time study week totals 48 hours. If you are unable to commit 48 hours of study due to external commitments, please speak with a course advisor about options to study less units per semester or take some units in the summer semester.
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E3011 Bachelor of Engineering (Honours) and Bachelor of Information Technology

Engineering specialisation - Electrical and computer systems engineering

IT major – Software development

	Bachelor of Electrical and Computer Systems Engineering (Honours)		Bachelor of Information Technology		
Year 1 Semester 1 February	Common First Year			FIT1047 Introduction to computer systems networks and security	
Year 1 Semester 2 July				FIT1045 Introduction to programming	
Year 2 Semester 1 February	ECE2071 Systems programming	ECE2131 Electrical circuits	FIT1049 IT professional practice	FIT1050 Web fundamentals	If two foundation units are required then overload is required for ENG1012 Engineering design
Year 2 Semester 2 July	ECE2072 Digital systems	ENG2005 Advanced engineering mathematics	FIT2094 Databases	FIT1051 Programming fundamentals in Java	
Year 3 Semester 1 February	ECE3051 Electrical energy systems	ECE3073 Computer systems	FIT2001 Systems development	FIT2081 Mobile application development	
Year 3 Semester 2 July	ECE2111 Signals and systems	ECE2191 Probability and AI for engineers	FIT2002 IT project management	FIT2104 Web database interface	
Year 4 Semester 1 February	ECE3141 Information and networks	Core List A elective	FIT3077 Software engineering: Architecture and design	FIT2175 Usability	
Year 4 Semester 2 July	ECE3121 Engineering electromagnetics	ECE3161 Analogue electronics	FIT3178 iOS application development	FIT3184 Cloud computing	
Year 5 Semester 1 February	ENG4701 Final year project A	Complete one Professional Practice domain unit	Core List A or B elective	FIT3047 IE Studio project 1	ENG0001 Continuous Professional Development (0 credit points)
Year 5 Semester 2 July	ENG4702 Final year project B	ECE4191 Engineering integrated design	ECE4132 Control system design From 2027: Replace with ECE3133	FIT3048 IE Studio project 2	

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- ECE2072** - If you have completed ECE2072 as a First Year breadth study unit, it will count towards your ECSE engineering study. You must still fulfil the First Year engineering breadth study requirement by completing another breadth study unit.
- Engineering minors are not available in the Engineering double degree courses.
- You are required to complete at least 420 hours of Continuous Professional Development (CPD) in order to graduate. For further information refer to the [CPD webpage](#).
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E3011 Bachelor of Engineering (Honours) and Bachelor of Information Technology

Engineering specialisation – Robotics and mechatronics engineering

IT major – Applied cybersecurity

	Bachelor of Robotics and Mechatronics Engineering (Honours)		Bachelor of Information Technology		
Year 1 Semester 1 February	Common First Year			FIT1047 Introduction to computer systems, networks and security	
Year 1 Semester 2 July				FIT1045 Introduction to programming	
Year 2 Semester 1 February	ECE2071 Systems programming	ECE2131 Electrical circuits	FIT1049 IT professional practice	FIT1057 Introduction to cybersecurity	If two foundation units are required then overload is required for ENG1012 Engineering design
Year 2 Semester 2 July	ENG2005 Advanced engineering mathematics	MMA2004 Dynamics 1 Replacing TRC2201	FIT2094 Databases	FIT1093 Cybersecurity tools and techniques	
Year 3 Semester 1 February	MMA2001 Design 1 Replacing MEC2402	TRC3200 Dynamical systems	FIT2001 Systems development	FIT2165 Computer networks	
Year 3 Semester 2 July	ECE2072 Digital systems	MMA2005 Modelling and control Replacing TRC3600	FIT2002 IT project management	FIT2100 Operating systems	
Year 4 Semester 1 February	TRC3500 Sensors and artificial perception	ECE3073 Computer systems	FIT2173 Software security	FIT3031 Network security	
Year 4 Semester 2 July	MMA2003 Thermofluids 1 Replacing TRC4802	ECE4179 Neural networks and deep learning From 2027: Replace with ECE3192	FIT3168 IT forensics	FIT3186 Vulnerability analysis, response and mitigation	
Year 5 Semester 1 February	ENG4701 Final year project A	TRC4800 Robotics	ECE4076 Computer vision	FIT3047 IE Studio project 1	ENG0001 Continuous Professional Development (0 credit points)
Year 5 Semester 2 July	ENG4702 Final year project B	TRC4407 Automation design project	Complete one Professional Practice domain unit	FIT3048 IE Studio project 2	

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- [ECE2072](#) - If you have completed this unit as a First Year breadth study unit, it will count towards your robotics and mechatronics engineering study. You must still fulfil the First Year engineering breadth study requirement by completing another breadth study unit.
- You are required to complete at least 420 hours of Continuous Professional Development (CPD) in order to graduate. For further information refer to the [CPD webpage](#).
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E3011 Bachelor of Engineering (Honours) and Bachelor of Information Technology

Engineering specialisation – Robotics and mechatronics engineering

IT major – Business information systems

	Bachelor of Robotics and Mechatronics Engineering (Honours)		Bachelor of Information Technology		
Year 1 Semester 1 February	Common First Year			FIT1047 Introduction to computer systems networks and security	
Year 1 Semester 2 July				FIT1045 Introduction to programming	
Year 2 Semester 1 February	ECE2071 Systems programming	ECE2131 Electrical circuits	FIT1051 Programming fundamentals in Java	FIT1006 Business information analysis	If two foundation units are required then overload is required for ENG1012 Engineering design
Year 2 Semester 2 July	ENG2005 Advanced engineering mathematics	MMA2004 Dynamics 1 Replacing TRC2201	FIT1049 IT professional practice	FIT2090 Business information systems and processes	
Year 3 Semester 1 February	MMA2001 Design 1 Replacing MEC2402	TRC3200 Dynamical systems	FIT2001 Systems development	FIT2081 Mobile applications development	
Year 3 Semester 2 July	ECE2072 Digital systems	MMA2005 Modelling and control Replacing TRC3600	FIT2002 IT project management	FIT2095 Full stack development	
Year 4 Semester 1 February	TRC3500 Sensors and artificial perception	ECE3073 Computer systems	FIT3152 Data analytics	FIT2094 Databases	
Year 4 Semester 2 July	MMA2003 Thermofluids 1 Replacing TRC4802	ECE4179 Neural networks and deep learning From 2027: Replace with ECE3192	FIT3158 Business decision modelling	FIT3138 Real time enterprise systems	
Year 5 Semester 1 February	ENG4701 Final year project A	TRC4800 Robotics	ECE4076 Computer vision	FIT3047 IE Studio project 1	ENG0001 Continuous Professional Development (0 credit points)
Year 5 Semester 2 July	ENG4702 Final year project B	TRC4407 Automation design project	Complete one Professional Practice domain unit	FIT3048 IE Studio project 2	

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- [ECE2072](#) - If you have completed this unit as a First Year breadth study unit, it will count towards your robotics and mechatronics engineering study. You must still fulfil the First Year engineering breadth study requirement by completing another breadth study unit.
- You are required to complete at least 420 hours of Continuous Professional Development (CPD) in order to graduate. For further information refer to the [CPD webpage](#).
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E3011 Bachelor of Engineering (Honours) and Bachelor of Information Technology

Engineering specialisation – Robotics and mechatronics engineering

IT major – Games and immersive media

	Bachelor of Robotics and Mechatronics Engineering (Honours)		Bachelor of Information Technology		
Year 1 Semester 1 February	Common First Year			FIT1047 Introduction to computer systems, networks and security	
Year 1 Semester 2 July				FIT1045 Introduction to programming	
Year 2 Semester 1 February	ECE2071 Systems programming	ECE2131 Electrical circuits	FIT1049 IT professional practice	FIT1073 Game design	If two foundation units are required then overload is required for ENG1012 Engineering design
Year 2 Semester 2 July	ENG2005 Advanced engineering mathematics	MMA2004 Dynamics 1 Replacing TRC2201	FIT2094 Databases	FIT1033 Foundations of 3D	
Year 3 Semester 1 February	MMA2001 Design 1 Replacing MEC2402	TRC3200 Dynamical systems	FIT2096 Games programming or FIT2169 Immersive environments	FIT2098 Virtual and augmented reality	
Year 3 Semester 2 July	ECE2072 Digital systems	MMA2005 Modelling and control Replacing TRC3600	FIT2001 Systems development	FIT2145 Game prototyping	
Year 4 Semester 1 February	TRC3500 Sensors and artificial perception	ECE3073 Computer systems	FIT3187 3D character animation	FIT3172 Sonics	
Year 4 Semester 2 July	MMA2003 Thermofluids 1 Replacing TRC4802	ECE4179 Neural networks and deep learning From 2027: Replace with ECE3192	FIT2002 IT project management	FIT3097 Technical art	
Year 5 Semester 1 February	ENG4701 Final year project A	TRC4800 Robotics	ECE4076 Computer vision	FIT3039 Studio project 1	
Year 5 Semester 2 July	ENG4702 Final year project B	TRC4407 Automation design project	Complete one Professional Practice domain unit	FIT3040 Studio project 2	

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- Each unit requires 12 hours of work per week. A full-time study week totals 48 hours. If you are unable to commit 48 hours of study due to external commitments, please speak with a course advisor about options to study less units per semester or take some units in the summer semester.
- [ECE2072](#) - If you have completed this unit as a First Year breadth study unit, it will count towards your robotics and mechatronics engineering study. You must still fulfil the First Year engineering breadth study requirement by completing another breadth study unit.
- You are required to complete at least 420 hours of Continuous Professional Development (CPD) in order to graduate. For further information refer to the [CPD webpage](#).
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E3011 Bachelor of Engineering (Honours) and Bachelor of Information Technology

Engineering specialisation – Robotics and mechatronics engineering

IT major – Software development

	Bachelor of Robotics and Mechatronics Engineering (Honours)		Bachelor of Information Technology		
Year 1 Semester 1 February	Common First Year			FIT1047 Introduction to computer systems, networks and security	
Year 1 Semester 2 July				FIT1045 Introduction to programming	
Year 2 Semester 1 February	ECE2071 Systems programming	ECE2131 Electrical circuits	FIT1049 IT professional practice	FIT1050 Web fundamentals	If two foundation units are required then overload is required for ENG1012 Engineering design
Year 2 Semester 2 July	ENG2005 Advanced engineering mathematics	MMA2004 Dynamics 1 Replacing TRC2201	FIT2094 Databases	FIT1051 Programming fundamentals in Java	
Year 3 Semester 1 February	MMA2001 Design 1 Replacing MEC2402	TRC3200 Dynamical systems	FIT2001 Systems development	FIT2081 Mobile application development	
Year 3 Semester 2 July	ECE2072 Digital systems	MMA2005 Modelling and control Replacing TRC3600	FIT2002 IT project management	FIT2104 Web database interface	
Year 4 Semester 1 February	TRC3500 Sensors and artificial perception	ECE3073 Computer systems	FIT3077 Software engineering: Architecture and design	FIT2175 Usability	
Year 4 Semester 2 July	MMA2003 Thermofluids 1 Replacing TRC4802	ECE4179 Neural networks and deep learning From 2027: Replace with ECE3192	FIT3178 iOS application development	FIT3184 Cloud computing	
Year 5 Semester 1 February	ENG4701 Final year project A	TRC4800 Robotics	ECE4076 Computer vision	FIT3047 IE Studio project 1	ENG0001 Continuous Professional Development (0 credit points)
Year 5 Semester 2 July	ENG4702 Final year project B	TRC4407 Automation design project	Complete one Professional Practice domain unit	FIT3048 IE Studio project 2	

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- It is important that you follow the course map unit sequence, as units are designed to build on prior knowledge. Taking units out of sequence can disrupt your progression and cause delays due to semester offerings and enrolment rules.
- Each unit requires 12 hours of work per week. A full-time study week totals 48 hours. If you are unable to commit 48 hours of study due to external commitments, please speak with a course advisor about options to study less units per semester or take some units in the summer semester.
- ECE2072** - If you have completed this unit as a First Year breadth study unit, it will count towards your robotics and mechatronics engineering study. You must still fulfil the First Year engineering breadth study requirement by completing another breadth study unit.
- You are required to complete at least 420 hours of Continuous Professional Development (CPD) in order to graduate. For further information refer to the [CPD webpage](#).
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E3011 Bachelor of Engineering (Honours) and Bachelor of Information Technology

Engineering specialisation - Software engineering

IT major – Applied cybersecurity

	Bachelor of Software Engineering (Honours)		Bachelor of Information Technology		
Year 1 Semester 1 February	Common First Year			FIT1047 Introduction to computer systems, networks and security	
Year 1 Semester 2 July				FIT1045 Introduction to programming	
Year 2 Semester 1 February	MAT1830 Discrete mathematics for computer science	FIT2099 Object oriented design and implementation	FIT1049 IT professional practice	FIT1057 Introduction to cybersecurity	If two foundation units are required then overload is required for ENG1012 Engineering design
Year 2 Semester 2 July	FIT2085 Fundamentals of algorithms for engineers From 2027: Replace with FIT2115	FIT2101 Software engineering process and management	FIT2094 Databases	FIT1093 Cybersecurity tools and techniques	
Year 3 Semester 1 February	FIT3159 Computer architecture	FIT2004 Algorithms and data structures	FIT2001 Systems development	FIT2165 Computer networks	
Year 3 Semester 2 July	FIT2107 Software verification and validation	FIT2100 Operating systems	FIT2002 IT project management	Level 2 or 3 FIT-coded unit	
Year 4 Semester 1 February	FIT3170 Software engineering practice (12 points)	FIT3077 Software engineering: Architecture and design	FIT2173 Software security	FIT3031 Network security	
Year 4 Semester 2 July		Level 3 or 4 software engineering technical elective *	FIT3168 IT forensics	FIT3186 Vulnerability analysis, response and mitigation	
Year 5 Semester 1 February	FIT4002 Software engineering industry experience studio project (12 points)	FIT4701 Final year software engineering project A	Level 4 or 5 software engineering core elective	FIT3047 IE Studio project 1	ENG0001 Continuous Professional Development (0 credit points)
Year 5 Semester 2 July		FIT4702 Final year software engineering project B	Level 4 or 5 software engineering core elective	FIT3048 IE Studio project 2	

NOTE:

- It is important that you follow the course map unit sequence, as units are designed to build on prior knowledge. Taking units out of sequence can disrupt your progression and cause delays due to semester offerings and enrolment rules.
- If you completed FIT1058 in 2025, it will be counted in place of MAT1830. Otherwise, you must complete MAT1830.
- * [FIT3171](#): Replace with approved software engineering elective due to overlapping content with the Bachelor of Computer Science.
- Engineering minors are not available in the Engineering double degree courses.
- You are required to complete at least 420 hours of Continuous Professional Development (CPD) in order to graduate. For further information refer to the [CPD webpage](#).
- Each unit requires 12 hours of work per week. A full-time study week totals 48 hours. If you are unable to commit 48 hours of study due to external commitments, please speak with a course advisor about options to study less units per semester or take some units in the summer semester.
- For enrolment advice, please refer to the [Course advisers webpage](#).

Course progression map for 2025 commencing students

This progression map provides advice on the optimal sequencing of units and guidance on planning unit enrolment for each semester of study in conjunction with the required units outlined in the course 'Requirements' section of the [Handbook](#). Please note that the map may be updated to reflect changes to course requirements. Be sure to review it for the latest information before re-enrolling. Last updated: 27 September 2026

E3011 Bachelor of Engineering (Honours) and Bachelor of Information Technology

Engineering specialisation - Software engineering

IT major – Business information systems

	Bachelor of Software Engineering (Honours)		Bachelor of Information Technology		
Year 1 Semester 1 February	Common First Year			FIT1047 Introduction to computer systems, networks and security	
Year 1 Semester 2 July				FIT1045 Introduction to programming	
Year 2 Semester 1 February	MAT1830 Discrete mathematics for computer science	FIT2099 Object oriented design and implementation	FIT1051 Programming fundamentals in Java	FIT1006 Business information analysis	If two foundation units are required then overload is required for ENG1012 Engineering design
Year 2 Semester 2 July	FIT2085 Fundamentals of algorithms for engineers From 2027: Replace with FIT2115	FIT2101 Software engineering process and management	FIT1049 IT professional practice	FIT2090 Business information systems and processes	
Year 3 Semester 1 February	FIT3159 Computer architecture	FIT2004 Algorithms and data structures	FIT2001 Systems development	FIT2081 Mobile applications development	
Year 3 Semester 2 July	FIT2107 Software verification and validation	FIT2100 Operating systems	FIT2002 IT project management	FIT2095 Full stack development	
Year 4 Semester 1 February	FIT3170 Software engineering practice (12 points)	FIT3077 Software engineering: Architecture and design	FIT3152 Data analytics	FIT2094 Databases	
Year 4 Semester 2 July		Level 3 or 4 software engineering technical elective *	FIT3158 Business decision modelling	FIT3138 Real time enterprise systems	
Year 5 Semester 1 February	FIT4002 Software engineering industry experience studio project (12 points)	FIT4701 Final year software engineering project A	FIT4165 Computer networks	FIT3047 IE Studio project 1	ENG0001 Continuous Professional Development (0 credit points)
Year 5 Semester 2 July		FIT4702 Final year software engineering project B	Level 4 or 5 software engineering core elective	FIT3048 IE Studio project 2	

NOTE:

- It is important that you follow the course map unit sequence, as units are designed to build on prior knowledge. Taking units out of sequence can disrupt your progression and cause delays due to semester offerings and enrolment rules.
- If you completed FIT1058 in 2025, it will be counted in place of MAT1830. Otherwise, you must complete MAT1830.
- * [FIT3171](#): Replace with approved software engineering elective due to overlapping content with the Bachelor of Computer Science.
- Engineering minors are not available in the Engineering double degree courses.
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Course progression map for 2025 commencing students

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E3011 Bachelor of Engineering (Honours) and Bachelor of Information Technology

Engineering specialisation - Software engineering

IT major – Games and immersive media

	Bachelor of Software Engineering (Honours)		Bachelor of Information Technology		
Year 1 Semester 1 February	Common First Year			FIT1047 Introduction to computer systems, networks and security	
Year 1 Semester 2 July				FIT1045 Introduction to programming	
Year 2 Semester 1 February	MAT1830 Discrete mathematics for computer science	FIT2099 Object oriented design and implementation	FIT1049 IT professional practice	FIT1073 Game design	If two foundation units are required then overload is required for ENG1012 Engineering design
Year 2 Semester 2 July	FIT2085 Fundamentals of algorithms for engineers From 2027: Replace with FIT2115	FIT2101 Software engineering process and management	FIT2094 Databases	FIT1033 Foundations of 3D	
Year 3 Semester 1 February	FIT3159 Computer architecture	FIT2004 Algorithms and data structures	FIT2096 Games programming or FIT2169 Immersive environments	FIT2098 Virtual and augmented reality	
Year 3 Semester 2 July	FIT2107 Software verification and validation	FIT2100 Operating systems	FIT2001 Systems development	FIT2145 Game prototyping	
Year 4 Semester 1 February	FIT3170 Software engineering practice (12 points)	FIT3077 Software engineering: Architecture and design	FIT3187 3D character animation	FIT3172 Sonics	
Year 4 Semester 2 July		Level 3 or 4 software engineering technical elective *	FIT2002 IT project management	FIT3097 Technical art	
Year 5 Semester 1 February	FIT4002 Software engineering industry experience studio project (12 points)	FIT4701 Final year software engineering project A	FIT4165 Computer networks	FIT3039 Studio project 1	ENG0001 Continuous Professional Development (0 credit points)
Year 5 Semester 2 July		FIT4702 Final year software engineering project B	Level 4 or 5 software engineering core elective	FIT3040 Studio project 2	

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E3011 Bachelor of Engineering (Honours) and Bachelor of Information Technology

Engineering specialisation - Software engineering

IT major – Software development

	Bachelor of Software Engineering (Honours)		Bachelor of Information Technology		
Year 1 Semester 1 February	Common First Year			FIT1047 Introduction to computer systems, networks and security	
Year 1 Semester 2 July				FIT1045 Introduction to programming	
Year 2 Semester 1 February	MAT1830 Discrete mathematics for computer science	FIT2099 Object oriented design and implementation	FIT1049 IT professional practice	FIT1050 Web fundamentals	If two foundation units are required then overload is required for ENG1012 Engineering design
Year 2 Semester 2 July	FIT2085 Fundamentals of algorithms for engineers From 2027: Replace with FIT2115	FIT2101 Software engineering process and management	FIT2094 Databases	FIT1051 Programming fundamentals in Java	
Year 3 Semester 1 February	FIT3159 Computer architecture	FIT2004 Algorithms and data structures	FIT2001 Systems development	FIT2081 Mobile application development	
Year 3 Semester 2 July	FIT2107 Software verification and validation	FIT2100 Operating systems	FIT2002 IT project management	FIT2104 Web database interface	
Year 4 Semester 1 February	FIT3170 Software engineering practice (12 points)	FIT3077 Software engineering: Architecture and design	Level 3 FIT elective	FIT2175 Usability	
Year 4 Semester 2 July		Level 3 or 4 software engineering technical elective *	FIT3178 iOS application development	FIT3184 Cloud computing	
Year 5 Semester 1 February	FIT4002 Software engineering industry experience studio project (12 points)	FIT4701 Final year software engineering project A	FIT4165 Computer networks	FIT3047 IE Studio project 1	ENG0001 Continuous Professional Development (0 credit points)
Year 5 Semester 2 July		FIT4702 Final year software engineering project B	Level 4 or 5 software engineering core elective	FIT3048 IE Studio project 2	

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